Kentucky Department for Public Health Weekly Influenza Surveillance Report Morbidity and Mortality Weekly Report (MMWR) Week 43 October 21 – October 27, 2018



Current Influenza Activity Level: †Local

[†]**Local:** Outbreaks of influenza or increases in ILI cases and recent laboratory-confirmed influenza in a single region of the state.

*Confirmed: Influenza laboratory Confirmed Cases are defined by positive molecular virus (RT-PCR) or Virus Culture test results. Those positive test results are reportable in Kentucky. (Positive results for Rapid Influenza Diagnostic Tests are not included in this report).

Influenza-like Illness (ILI) Case Definition:

- Fever (≥ 100°F [37.8°C], oral or equivalent, PLUS Cough -OR-
- Fever (≥ 100°F [37.8°C], oral or equivalent, PLUS Sore Throat -OR-
- Fever (≥ 100°F [37.8°C], oral or equivalent, PLUS Cough and Sore Throat

Activity Level Range: Sporadic Local Regional Widespread

Update for week 43:		Updated Total 2018-2019 Season:	
Lab Confirmed Influenza:	19 Cases	Lab Confirmed Total:	47 Cases
Number of Regions with Long Term Care Facility Outbreaks:	0 of 17 Regions	Total Number of Long Term Care Facility Outbreaks:	0 Outbreaks
Number of Regions with Confirmed Flu Cases:	3 of 17 Regions	Total Number of Regions with Confirmed Flu Cases:	8 of 17 Regions
Deaths Reported:	0 (under 18 years) 0 (18 years & older)	Total Deaths Reported:	0 (under 18 years) 1 (18 years & older)
Number of Regions with Increased ILI Activity:	12 of 17 Regions	Number of Regions with ILI Activity this Flu Season:	16 of 17 Regions
Number of Regions with Increased Influenza Activity:	1 of 17 Regions		

^{**}All data are preliminary and may change as more delayed reports are received

Kentucky National Electronic Disease Surveillance System (NEDSS) and U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet) Data. Department for Public Health, Cabinet for Health and Family Services, Frankfort, Kentucky, [October 21 – October 27, 2018].

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Fig 1: Laboratory Confirmed Cases by Age

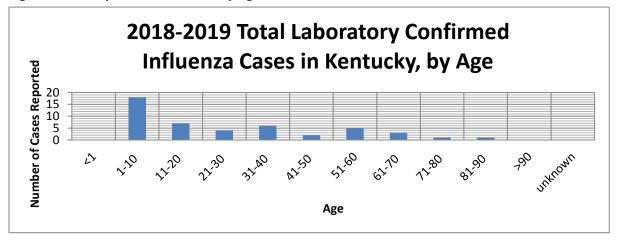


Fig 2: Laboratory Confirmed Cases by Influenza Virus Types

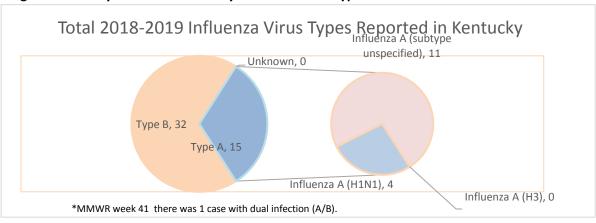
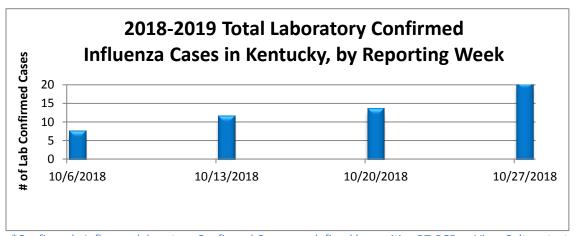
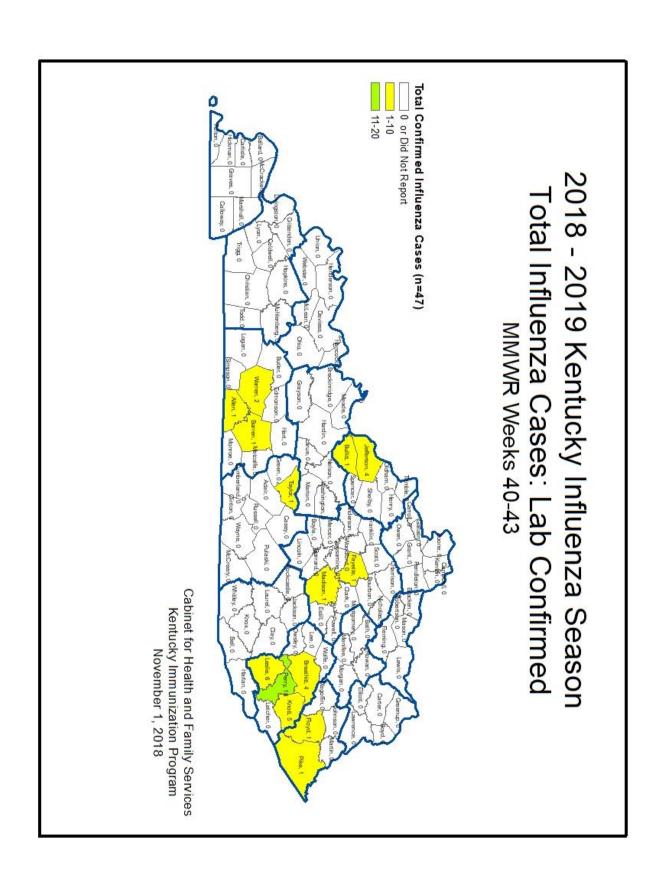


Fig 3: 2018-2019 Total Laboratory Confirmed Influenza Cases in Kentucky, by Reporting Week



^{*}Confirmed: Influenza laboratory Confirmed Cases are defined by positive RT-PCR or Virus Culture test results





National Data 2018-2019 Influenza Season Week 42 ending October 20, 2018

All data are preliminary and may change as more reports are received.

*Week 43 will be available November 8th.

Synopsis:

Influenza activity in the United States remains low. Influenza A(H1N1)pdm09, influenza A(H3N2), and influenza B viruses continue to co-circulate, with influenza A(H1N1)pdm09 viruses reported most commonly by public health laboratories during the most recent three weeks. Below is a summary of the key influenza indicators for the week ending October 20, 2018:

- <u>Viral Surveillance:</u> Influenza A viruses have predominated in the United States since the beginning of July. The percentage of respiratory specimens testing positive for influenza in clinical laboratories was low.
 - Virus Characterization: The majority of influenza viruses characterized antigenically and genetically are similar to the cell-grown reference viruses representing the 2018–2019 Northern Hemisphere influenza vaccine viruses.
 - Antiviral Resistance: All viruses tested since late May show susceptibility to the antiviral drugs oseltamivir, zanamivir, and peramivir.
- o <u>Influenza-like Illness Surveillance:</u> The proportion of outpatient visits for influenza-like illness (ILI) remained low at 1.5%, which is below the national baseline of 2.2%. All regions reported ILI below their region-specific baseline level.
 - ILI State Activity Indictor Map: Puerto Rico and one state experienced low ILI activity; and New York City, the District
 of Columbia, and 49 states experienced minimal ILI activity..
- Geographic Spread of Influenza: The geographic spread of influenza in four states was reported as local; the District of Columbia, Puerto Rico, the U.S. Virgin Islands and 42 states reported sporadic activity; four states reported no activity; and Guam did not report.
- Pneumonia and Influenza Mortality: The proportion of deaths attributed to pneumonia and influenza (P&I) was below the system-specific epidemic threshold in the National Center for Health Statistics (NCHS) Mortality Surveillance System.
- o <u>Influenza-associated Pediatric Deaths:</u> No influenza-associated pediatric deaths were reported to CDC.

Weekly U.S. Influenza Surveillance Report. Centers for Disease Control and Prevention. https://www.cdc.gov/flu/weekly/index.htm, Retrieved: 11/01/2018.